	Application No.	Applicant(s)
	09/870,085	YANO ET AL.
Notice of Allowability	Examiner	Art Unit
	Thanhha Pham	2813
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commits in the commits of the commits	n this application. If not included junication will be mailed in due course. THIS
1. 🗵 This communication is responsive to 10/01/2004 and inter-	view dated 01/11/2005.	,
2. X The allowed claim(s) is/are 1,3,4,28-30,34-37,39-44 and 4	<u>6-55</u> .	
3. \boxtimes The drawings filed on <u>25 August 2003</u> are accepted by the	Examiner.	
4.	e been received. be been received in Application cuments have been received of this communication to file the file to the attached EX reason(s) why the oath control of the submitted. son's Patent Drawing Reviews Amendment / Comment of the header according to 37 Circles it of BIOLOGICAL MAT	on No In a d in this national stage application from the set a reply complying with the requirements. AMINER'S AMENDMENT or NOTICE OF or declaration is deficient. W (PTO-948) attached In in the Office action of the drawings in the front (not the back) of FR 1.121(d). ERIAL must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date	6. ☐ Interview S Paper No. 7. ☑ Examiner's	nformal Patent Application (PTO-152) Summary (PTO-413), /Mail Date S Amendment/Comment S Statement of Reasons for Allowance

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Grace Pan on 01/11/2005.

The application has been amended as follows:

In claim 1,

line 6, after "the target substrate" insert -- , said selectively grinding or polishing the peripheral portion and the beveled portion on the main surface side of the target substrate is carried out after applying anisotropic dry etching treatment to form a deep and irregular uneven portion in the peripheral portion and the beveled portion of the target substrate –

- Cancel claim 2
- In claim 3,

lines 4-5, delete "a deep and irregular uneven portion is formed in the peripheral portion and the beveled portion of the target substrate and then"

line 6, delete "is carried out"

In claim 4,

line 7, change "a" to - the -

Cancel claims 5-6, 23-26, 27

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In claim 28,

- Cancel claims 31-33
- In claim 35,

line 8, after "of multi-layered films" insert -- , said selectively grinding or polishing the peripheral portion and the beveled portion on the main surface side of the target substrate is carried out after applying anisotropic dry etching treatment to form a deep and irregular uneven portion in the peripheral portion and the beveled portion of the target substrate –

In claim 36,

lines 4-5, delete "a deep and irregular uneven portion is formed in the peripheral portion and the beveled portion of the target substrate and then"

line 6, delete "is carried out"

In claim 37,

- Cancel claim 38
- In claim 39,

In claim 42,

line 7, after "the target substrate" insert --, said selectively grinding or polishing the peripheral portion and the beveled portion on the main surface side of the target substrate is carried out after applying anisotropic dry etching treatment to

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form a deep and irregular uneven portion in the peripheral portion and the beveled portion of the target substrate –

In claim 43,

lines 4-5, delete "a deep and irregular uneven portion is formed in the peripheral portion and the beveled portion of the target substrate and then"

line 6, delete "is carried out"

In claim 44,

- Cancel claim 45
- In claim 46,

line 2, change "45" to - 42 -

Allowable Subject Matter

- 2. Claims 1, 3-4, 28-30, 34-37, 39-44, 46-55 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Recorded Prior Art fails to disclose or suggest the combination of the process steps of manufacturing a semiconductor device as cited in the base claim 1 including selectively grinding or polishing the peripheral portion and the beveled portion on the main surface side of a target substrate including a semiconductor substrate wherein a film formed on the peripheral portion and the beveled portion is removed under a condition that the film has non-selectivity to the target substrate, said selectively grinding or polishing the peripheral portion and the beveled portion on the main surface side of the target

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substrate is carried out after applying anisotropic dry etching treatment to form a deep and irregular uneven portion in the peripheral portion and the beveled portion of the target substrate. Recorded Prior Art also fails to disclose or suggest the combination of the process steps of manufacturing a semiconductor device as cited in the base claim 30 including after depositing the polysilicon film, selective grinding or polishing the peripheral portion and the beveled portion on the main surface side of a target substrate including a semiconductor substrate, wherein the insulating film remaining on the peripheral portion and the bevel portion is removed under a condition that the insulating film and the polysilicon film have non-selectivity to the semiconductor substrate. Recorded Prior Art fails to disclose or suggest the combination of the process steps of manufacturing a semiconductor device as cited in the base claim 35 including selectively grinding or polishing the peripheral portion and the beveled portion on the main surface side of a target substrate including a semiconductor substrate, wherein at least an uppermost layer of multi-layered films formed on the peripheral portion and the beveled portion is removed under a condition that that at least uppermost layer of the multi-layered film has non-selectivity to a layer of the multi-layered films which is under the uppermost layer of multi-layered films, said selectively grinding or polishing the peripheral portion and the beveled portion on the main surface side of the target substrate is carried out after applying anisotropic dry etching treatment to form a deep and irregular uneven portion in the peripheral portion and the beveled portion of the target substrate. Recorded Prior Art also fails to disclose or suggest the combination of the process steps of manufacturing a semiconductor device as cited in the base claim

42 including selectively grinding or polishing the peripheral portion and the beveled portion on the main surface side of a target substrate including a semiconductor substrate, wherein multi-layered films formed on the peripheral portion and the beveled portion are removed under a condition that the multi-layered films has non-selectivity to the target substrate, said selectively grinding or polishing the peripheral portion and the beveled portion on the main surface side of the target substrate is carried out after applying anisotropic dry etching treatment to form a deep and irregular uneven portion in the peripheral portion and the beveled portion of the target substrate.

- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhha Pham whose telephone number is (571) 272-1696. The examiner can normally be reached on Monday and Thursday 9:00AM 9:30PM.

If attempts to reach the examiner by telephone are unsuccessful; the examiner's supervisor, Carl Whitehead can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Thanhha Pham

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